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RAY 1988

MINING AND RECLAMATION PLAN ENVIRONMENTAL STUDY REPORT

Prepared For

State of Utah Office of Natural Resources Attn Mr. Holland Shepherd

Prepared By

American Consolidated Mining Co.



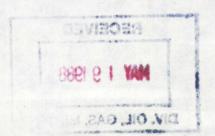
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refleen Consolidated Willing Co.



FORM MR-MO (Revised 7/87)

FOR DIVISION USE ONLY
File #: M /045 / 019
Date Received: / /
Date Approved: / /
DOGM Lead:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Telephone: (801) 538-5340

NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS MINING AND RECLAMATION PLAN

Based on Provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, General Rules and Regulations and Rules of Practice and Procedures, By Order of the Board of Oil, Gas and Mining.

This form applies only to mining operations which disturb or will disturb greater than five acres at any given time.

"MINING OPERATIONS" means those activities conducted on the surface of the land for the exploration for, development of, or extraction of a mineral deposit, including, but not limited to, surface mining and the surface effects of underground and in situ mining, on-site transportation, concentrating, milling, evaporation, and other primary processing.

"Mining operation" does not include: the extraction of sand, gravel, and rock aggregate; the extraction of oil and gas as defined in Chapter 6, Title 40; the extraction of geothermal steam; smelting or refining operations; off-site operations and transportation; or reconnaissance activities which will not cause significant surface resource disturbance or involve the use of mechanized earth-moving equipment such as bulldozers or backhoes.

PLEASE NOTE: If extra space is required to complete a section, please attach additional sheets and include cross-referenced page numbers as necessary. The operator may submit this information on an alternate form, however the same or similar format must be used.

No.	Mine Name: Yellow Hammer Mine
	Mineral(s) to be Mined: Au, Ag, Cu, Wo ₃
	Name of Applicant or Company: American Consoidated Mining Co. Corporation (x) Partnership () Individual ()
	Permanent Address: 405 South 100 East, Suite 201 Pleasant Grove, Utah 84062
	Company Representative (or designated operator): Name: American Consolidated Mining company Title: Address: Address: 405 South 100 East, Suite 201 Pleasant Grove, Ut 801-785-7536
	Location of Operation: County(ies)Tooele Township:8 S. Range:18 W Section:24 Township: Range: Section: Township: Range: Section:
	Ownership of the land surface: Private (Fee), Public Domain (BLM), National Forest (USFS), State of Utah or other:
	Name: private- #4382 Address: Name: owned by American Address: Name: Consolidated Mining Address: Name: Address:
	Owner(s) of record of the minerals to be mined:
	Name: American Con. Min Address: 405 S. 100 E. Ste. 201, P.G. Name: Address: Address: Address: Address: Address: Address:
To the second	Have the above owners been notified in writing? Yes \underline{X} No $\underline{\underline{X}}$.

II. MAPS (Rule R613-005-105)

1. Base Map

A true and correct topographic base map (or maps) with appropriate contour intervals must be submitted with this Notice which show all of the items on the following checklist. The scale should be approximately 1 inch = 2,000 feet (preferably a USGS 7.5 minute series or equivalent topographic map where available) showing the location of lands to be affected in sufficient detail to permit calculation of proposed surface disturbance. Note: 2 U.S.G.S. Maps Enclosed

Map Checklist

Please check off each section as it is drawn on the map(s). Does the map

(a) Property boundaries of surface ownership of all lands which are to be affected by the mining operations; check N.W. part of section 24

X

X

X

Perennial streams, springs and other bodies of water, roads, buildings, landing strips, electrical transmission lines, water wells, oil and gas pipelines, existing wells or boreholes, or other existing surface or subsurface facilities within 500 feet of the proposed mining operations;

(c) Proposed route of access to the mining operations from nearest publicity maintained highway (Map scale appropriate to show access);

(d) Known areas which have been previously impacted by mining or exploration activities within the proposed mining permit area.

(e) Acreages proposed to be disturbed or reclaimed See Claim Map other suitable time period See Sketch Map See also below (D)

Surface Facilities Map

A surface facilities map shall be provided at a scale of not less than 1" = 500'.

Use Sketch Map

(D) Area has been mined by Cecil Woodman (Gold Hill) and also by his father before him - Since 1911. As well as many other companies.

Map	Check 1	ist
-----	---------	-----

Please check off each section as it is drawn on the map. Does the map

- (a) Proposed surface facilities, including but not limited to buildings, stationary mining/processing equipment, roads, utilities, power lines, proposed drainage control structures, and the location of topsoil storage areas, overburden/waste dumps, tailings or processed waste facilities, disposal areas for overburden, solid and liquid wastes, and wastewater discharge, treatment and containment facilities; See Sketch Map X
- (b) A border clearly outlining the extent of the surface disturbed area proposed to be affected by mining, and the number of acres proposed to be affected; See Sketch Map
- (c) The location of known test borings, pits, or core holes.
- 3. Additional Maps
 See Sketch Map
 See also Claim Map

Additional maps and drawings may be required as applicable in accordance with Rule R613-005-105.3. $_{\rm N/\Delta}$

III. OPERATION PLAN (Rule R613-005-106)

1. Acreage to be disturbed:

Minesite (operating, storage, disposal areas, etc.):

Access/haul roads/conveyors:
Associated on-site processing facilities:

Total:

9 Acres

 Describe methods and procedures to be employed for mining, on-site processing and concurrent reclamation.

Open pit mining: Drill, blast and load. Everburden will be placed on the existing pad area. Ore will be stock piled and then shipped off site for processing.

Depth to groundwater (if known)

No water incountered at at 400' by core drilling

Thickness of soil material to		
	N/A	inches
Volume of soil to be stockpiled	_ 0	acres
(cross reference with item IV-17)		cu. yds.
This is an old mine site with no stock Thickness of overburden None	piled top	soil ft.
Thickness of mineral deposit.	1000+	ft. Estimat
Volume of refuse, tailings, and processing waste stockpiles.	10,000	_ cu. yds.
Acreage of tailings ponds and water		
storage ponds to be constructed.	N/A	acres
Describe how topsoil or subsoil material will be and protected. N/A , See Section I	e removed,	stockpiled
	loadel.	
		COLUMN TO SERVICE STATE OF THE SECOND STATE OF
Describe how tailings, waste rock, rejected mat disposed ofOverburden will be placed	erials, etc on existi	. will be .ng pad area
Overburden will be placed	on existi	ng pad area
Potentially toxic materials must be analyzed for the nature of any toxic materials which will be	on existi	ng pad area
Potentially toxic materials must be analyzed for the nature of any toxic materials which will be generated onsite (See Rule R613-001-123).	on existi	ng pad area
Potentially toxic materials must be analyzed for the nature of any toxic materials which will be	on existi	ng pad area
Potentially toxic materials must be analyzed for the nature of any toxic materials which will be generated onsite (See Rule R613-001-123). No toxic materials are known to exist.	on existi	ng pad area
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Potentially toxic materials must be analyzed for the nature of any toxic materials which will be generated onsite (See Rule R613-001-123). No toxic materials are known to exist.	on existi	ng pad area
Potentially toxic materials must be analyzed for the nature of any toxic materials which will be generated onsite (See Rule R613-001-123). No toxic materials are known to exist. Specify analyses to be conducted on these materials.	on existi	ng pad area Describe untered, or
	be stockpiled. Area from which soil material can be salvaged Volume of soil to be stockpiled (cross reference with item IV-17) This is an old mine site with no stock Thickness of overburden Thickness of mineral deposit. Volume of refuse, tailings, and processing waste stockpiles. Acreage of tailings ponds and water storage ponds to be constructed. Describe how topsoil or subsoil material will be and protected. N/A, See Section I	be stockpiled. Area from which soil material can be salvaged Volume of soil to be stockpiled (cross reference with item IV-17) This is an old mine site with no stock piled tor Thickness of overburden Thickness of mineral deposit. Volume of refuse, tailings, and processing waste stockpiles. Acreage of tailings ponds and water storage ponds to be constructed. Describe how topsoil or subsoil material will be removed.

Vegetation - The operator is required to return the land to a useful condition and reestablish at least 70 percent of the premining vegetation ground cover (as measured on site before mining or on similar adjacent areas if already mined).						
avei	ground cover percentage figure iraging the vegetation type(s) on achment I for sampling methods).	s determined by sampling and the areas to be mined (see				
(a)	Vegetation Survey The following completed based upon the vegeta	information needs to be tion survey:				
	Sampling method used <u>Ocular</u>	by DOGM representative				
	Number of plots or transects _	N/A				
	Ground Cover	Percent				
	Vegetation (perennial grass, forb and shrub cover)					
	Litter	10				
	Rock/rock fragments	30				
	Bare ground	40 100%				
	Revegetation Requirement - 70 poof above vegetation figure)	ercent 14 %				
List on t	the four (4) predominant perenn the area.	ial species of vegetation grow				
	Indian Ricegrass	Utah Juniper				

- (b) Photographs The operator may submit photographs (prints) of the site sufficient to show existing vegetation conditions. These photographs should show the general appearance and condition of the area to be affected and may be utilized for comparison upon reclamation of the site. Photographs should be clearly marked as to the location, orientation and the date that the pictures were taken.

 Mine Photos Enclosed
- 16. Soils The plan shall include an order 3 Soil Survey (or similar) and map. This information is needed to determine which soils are suitable for stockpiling for revegetation. This soil data may be available from the local Soil Conservation Service office, or if on public lands, from the land management agency. The map needs to be of such scale that soil types can be accurately determined on the ground (see attachment I). See Section I
 - (a) Each soil type to be disturbed needs to be field analyzed for the following:

inches

Depth of soil material

Texture (laboratory)

Volume (for stockpiling)

	pH (field determination) (cross reference with item IV - 5)		. , , , ,
(b)	Where there are problem soil areas (as determined fexamination) laboratory analysis may be necessary fall of the following parameters:	from the for some	field or
	Electrical Conductivity Sodium Adsorption Ratio Saturation % Organic matter percentage Available P Available N-NO3 pH (laboratory)		

NOTE: Soil samples to be sent to the laboratory for analysis need to be about one pint in size, properly labeled, and in plastic bags. Each of the soil horizons on some sites may need to be sampled.

Provide a geologic	cross	secti	on.	1ption See	of Mi	the ne	geology Report	of Att	the tach	area ned	and/or	a

IV. IMPACT ASSESSMENT (Rule R613-005-108)

Please provide a general narrative description identifying potential surface and/or subsurface impacts. Where applicable, this description should include surface and groundwater systems, species of high interest or their critical habitats, existing soil resources for reclamation, slope stability, erosion control, air quality, and public health and safety.

This site is an old mine area. Additional mining will have minimal environmental impact.

Reclamation of conclusion of will eliminate the existing safety hazards and return the land to use for wildlife grazing.

V. RECLAMATION PLAN (Rule R613-005-109)

- 1. List current land use(s) other than mining: Wildlife Habitat possible __livestock grazing
- List future post-reclamation land-use(s) proposed: Wildlife Habitat possible livestock grazing
- 3. Describe each phase of reclamation of the minesite in detail under the following categories:
 - (a) <u>Disposal of Trash</u>
 Describe how building, foundations, trash and other waste materials will be disposed of. <u>Buried on site or hauled to sanitary landfill</u>

(b) Backfilling and Grading
Describe equipment and methods to be employed, amount of materials to be moved and final disposition of any stockpiled materials.

All overburden on top of the pad area and any remaining

stockpiles will be regraded to a rounded configuration
with slopes of 2H/IV or less. The pit highwall will be reduced to 45 degrees or less by backfilling and/or blasting.

(c) Soil Material Replacement
In order to reestablish the required ground cover, one to two feet (depending on underlying material) of suitable soil material usually has to be redistributed on the areas to be reseeded. If the stockpiled soil isn't sufficient for this, soil borrow areas will need to be located.

Where will this material come from? will be used as a soil substi	
How will it be transported and sprea	d? _N/A
(d) <u>Seed Bed Preparation</u> Describe how the seedbed will be preparation used. <u>The seedbed will be ripport</u> of six inches	pared and equipment to be ped by a dozer to a depth
(The Division recommends ripping or	discing six inches deep)
(e) <u>Seed Mixture</u> - List the species	
Species Name	Seeding Rate (1bs Pure Live Seed/Acre)
Indian Ricegrass Rabbit Brush	2 2
<u>Crested Wheatgrass</u> Shadescale	6
Fourwing Saltbush	6
(The Division recommends seeding 20 introduced adaptable species of grass provide a specific species list if re(f) Seeding Method	s, forb, and browse seed and will equested)
Describe method of planting the seed. into the soil.	Broadcast seed and rake seed
(The Division recommends planting the drill, or if broadcast seeded, harrowinch into the soil. Fall is the pref	or rave the cood 1/4 to 1/6
(g) <u>Fertilization</u> Describe fertilization method and rat <u>18-46-0</u> 100 lbs/acre	Ce. <u>Diammonium Phosphate</u>
(The Division recommends broadcast fe seeding of 200 lbs./acre of diammoniu	ertilization at the time of um phosphate 18-46-0)
(h) Other Revegetation Procedures If other reclamation procedures, such are planned, describe them. <u>hay</u> o	n as mulching, irrigation, etc.,
2,000 lb/acre	

VI. <u>VARIANCE</u> (Rule R613-005-111):

Any planned deviations from rule R613-005-007 (Operating Practices) or Rule R613-005-010 (Reclamation Practices) must be identified below.

<u>Rule Number</u> <u>M = 10 (12)</u>	<u>Title/Category</u> Revegetation
M - 10 (14)	Topsoil

For each variance requested, attach a narrative statement describing and delineating the area proposed to be affected by the variance, justifying the need for the variance, and discussing alternate methods or measures to be utilized.

VII. SURETY (Rule R613-005-112)

A Reclamation surety must be provided to the Division prior to final approval of this application. In calculating this amount, the Division will consider the following major steps:

Clean-up and removal of structures.

Backfilling, grading and contouring.

3) Soil material redistribution and stabilization.4) Revegetation (preparation, seeding, mulching)

5) Safety and fencing.

6) Monitoring.

· See Attached

To assist the Division in determining a reasonable surety amount, please attach a reclamation cost estimate which addresses each of the above steps.

VIII. SIGNATURE REQUIREMENT

I hereby certify that the foregoing is true and correct.

Signature of Operator: American Consolidated Mining by.

Name (typed or print): William Moeller, Chairman
Owner

Date: 5/5/88

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides for maintenance of confidentiality concerning certain portions of this report. Please check to see that any information desired to be held confidential is so labeled and included on separate sheets or maps. Only information relating to the <u>location</u>, size or nature of the deposit may be protected as confidential.

Confidential Information Enclosed: (X) Yes () No Claim Map

VII. SURETY (Rule R613-004-113)

A Reclamation surety must be provided to the Division prior to final approval of this application. In calculating this amount, the Division will consider the following major steps:

1) Clean-up and removal of structures.

2) Backfilling, grading and contouring.

- 3) Soil material redistribution and stabilization.
- 4) Revegetation (preparation, seeding, mulching)

5) Safety and fencing.

6) Monitoring.

To assist the Division in determining a reasonable surety amount, please attach a reclamation cost estimate which addresses each of the above steps.

VIII. SIGNATURE REQUIREMENT

I	hereby certify that the f	foregoing is true and correct,
	Signature of Operator:	foregoing is true and correct Lilliain D Moller chairman
	Name (typed or print):	William D Moeller
		CCO
	Date:	May 26, 1988
_		

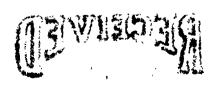
PLEASE NOTE:

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Confidential Information Enclosed: () Yes 🧡 No



DIVISION OF OIL, GAS & MINING



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SECTION I

Rule M-10(12), Revegetation Variance Narrative

The Yellow Hammer Pit was developed prior to the Mined Land Reclamation Act and no topsoil was stockpiled. The mine area had virtually no vegetative cover when the mine was reopened in * 198_. American Consolidated will seed the entire mine area excluding the pad outslopes and will reseed any areas which show poor initial growth. We believe however, that obtaining 70 percent of the vegetative ground cover of adjacent areas is not practical.

RULE M-10(14), Soil Variance Narrative

As described under Revegetation Variance Narrative, no topsoil material has been saved and stockpiled at the site due to prelaw disturbance. No topsoil will be barrowed from adjacent areas to reclaim the existing disturbance. If any new disturbance is made to yet undisturbed areas, at this site, topsoil will be removed prior to the disturbance, stockpiled and protected.

Because of the lack of topsoil, the planting medium will be ripped fertilized and mulched (hay) at final reclamation.

SURETY ESTIMATE

I	Removal of shed and fuel tank
II	Backfilling, grading, and contouring \$10,000.00
III	Ripping and seeding
	SUBTOTAL
IV	10% Contingency
	TOTAL in 1988 Dollars \$14,850.00
V	Inflation - 5 year Bond Period 2.3 % per year 1,150.00
	TOTAL (1993 \$) \$16,600.00

(I sell)

10250102 Coments ASK Section Subdivisions SW 14 SE 14 NW14

CRIS FORM 12 (12-78)

UN14. 0.

EXPLORATION AND DEVELOPMENT (Coned.) (Record No.)
Reports Available LI Flint A. 1960, A repo of the examination
and evaluation of the Alvacaso Cana Spring, Bonnemort, and Yellow
Hammon mines, Gold Hill mining district, TOOELE Ca. UT (unpublished) >
Comments L110<
<u>></u>
DESCRIPTION OF DEPOSIT
Deposit Type(s) (List F) C40< Fissures and replacements >
Deposit Form/Shape (List N) MIO< Tabular >
Max Thickness M60< > M61< (units) > Size M15< Small >
Depth to Top M20< 0 > M21< <u>FE</u> > Strike M70< <u>N 65 E</u> >
Depth to Bottom M30< > M31< > Dip M50< 65.5E >
Max Length . M40< 25 > M41< Ft. > Plumga M90< >
Max Width MSO< 5 > MSI< Ft > Plumge dir. M100< >
Property is: (Active) A21 (Inactive) A22 (Circle One)
commence, MILOS SEVERAL Small deposits, wall-rock contacts
not sharp
DESCRIPTION OF WORKINGS (Circle
Workings are: (Surface) MI20 (Underground) MI30 (Both) MI30 Labels)
For Underground Workings: (units)
Depth Below Surface M160 <
Langth of Workings M170<> M171<>
For Surface Workings (or undarground rooms): (units)
Overall Length of Mined Area M190< > M191<
Overall Width of Mined Area M2004 > M2014 >
Overall Area M210<
Comence MAZON SEVERAL LARGE OPEN PITS have broken
into older underground workings, probably 635 ft of underground
Workings remain.
GENERAL REFERENCES
1) FIC Nolan, T.B., 1935, The Gold Hill Mining District, Utah: USGS, PPITT
Selection of the first of the $ ightarrow$
2) FZC EI-Shatovey, H.M. and Whelau, J.A., 1970, Mineralization in the
Gold Hill Mining distrist Toocle Co, Utah: UGMS Bull . 83
3) F3< Everett, F.D., 1961, Tungsten Deposits in Utah: Burean of
Music Tofacountries Consular 2014
1. 1. 15 1917 Dearly Cliffy Missing District Hab. Ing
4) FLY CUSTER, A.E. 1917, DEED CREEK, CHITTON I TIMING DESTRE
and Min, Jour, V. 103, p. 916.

GEOLOGY AND MINERALO	(Record No.	
Age of Host Rocks	x1<1J,U,R, , , , , , , , ,	
Host Rock Types	RIACL Granodiorite	
Age of Assoc. Igneous Rocks	K2<[J, u, R, , , , , ,]>	
Igneous Rock Types	RZA<[Granodiorite	
Age of Hineralization	\(\text{\color=1}\)	
Partinent Hineralogy Other than Ora Hinerals albit		naline
Important Ore Control or Locus	xs' major fractures	
Rajor Regional Structures or Trands	HS< BASIN AND RANGE	
Tectonic Setting	H154 GEOSYNCLINE	\rightarrow
Significant Local Structures	M70<	
Significant Alteration	N75<	
Process of Concentration or Enrichment	HECK Hydrothermal alteration	<u>-</u> ,
Age (List 0)	Aga, Names of Formations or Rock Types	
N30<	, in	_>
H35<	। ।র	_>
M40<	, Ist	_>
	্ ড়া	_>
Age (List O)	Age, Names of Ignacus Units or Fook Types	
MSD< WILLIR	. UT GOLD HILL STOCK	_>
H55< 1 , , , , , , ,	, जा	_>
MED< L.,	. 131	_>
M65<	ر الال	_>
Comments (Geology and Mines	matite 595 < K4 sphene, apatite, magnetite,	
		<u>ر</u>
田田 日本日 日本		_
		_
		_
		_

Attachment I

Vegetation Cover Sampling

Vegetation cover sampling determines the amount of ground that is covered by live vegetation. It is divided into four categories which equal 100 percent. They are:

<u>Vegetation</u> - This is the live perennial vegetation. Care should be taken to avoid sampling in disturbed areas that have a large percentage of annual or weedy vegetation, such as cheatgrass and russian thistle.

 $\underline{\text{Litter}}$ - This is the dead vegetation on the ground, such as leaf and stem litter.

 $\frac{Rock/rock\ fragments}{surface}$ - This is the rock and rock fragments on the soil

 $\frac{\text{Bare ground}}{\text{erosion}}$ - This is the bare soil which is exposed to wind and water

Cover Sampling - The following methods are acceptable:

Ocular Estimation

This method visually estimates the percentage of ground covered in a plot by the four components. Plot size is usually a meter or yard square or a circular plot 36 inches in diameter. Ten to 20 plots should be randomly sampled in each major vegetation type.

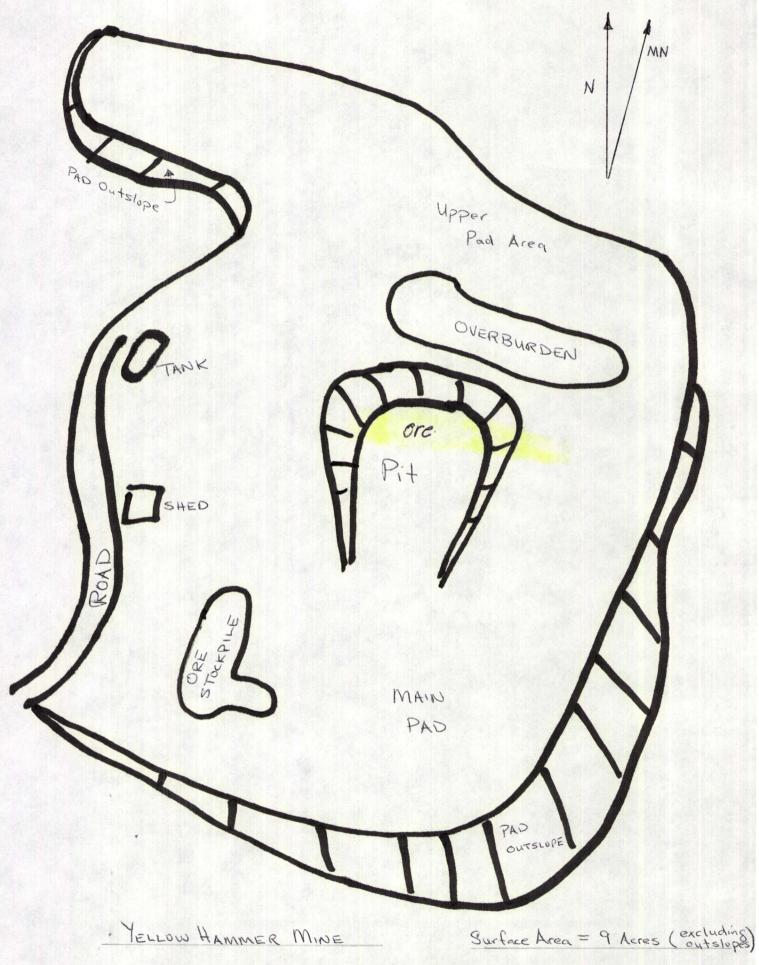
Line Intercept

Percent ground cover is obtained by stretching a tape measure (usually 100') over the ground and then recording which of the four components is under each foot mark. At least two of these transects should be randomly laid out and measured in each major vegetation type.

Soil Survey and Sampling Methods

If a SCS or land management agency soil survey is not available, the operator shall delineate all soil types that will be disturbed by mining on a map. Each soil type shall be sampled for its characteristics and inherent properties. Representative sampling locations should have similar geologic parent material, slopes, vegetative communities and aspects. The sampling locations should be representative of the soil type and be identified on the map. Sampling shall be at a minimum of one (1) for each soil type disturbed.

The soil map needs to be of sufficient scale so that each soil type can be accurately located on the ground.



SKETCH MAP, 1" = 100'

PREPARED BY FRANK FLAS

4-7-88

